UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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ART UNIT	PAPER NUMBER
2626	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on _____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-23* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-23* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2.   Claims 1-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Deng et

al., ("Distributed Speech Processing in MiPad's Multimodal User interface", IEEE

Transactions on Speech and Audio Processing, Vol.10, no.8, November 2008).

As per claim 1, Deng et al., teach a computing device within a network that

adopts parameters of an automatic speech recognition (ASR) system embedded on a

mobile device, the computing device comprising:

means for receiving user account-specific adaptation data associated data

associated with ASR from a mobile device (Section 1, paragraph 1);

means for generating new ASR adaptation parameters using the user account-

specific adaptation data transmitted from the mobile device when a communication

channel with the mobile device becomes available (Section II, paragraph A); and,

means for transmitting the new ASR adaptation parameters to the mobile device

when a communication channel with the mobile device becomes available, wherein the

new ASR adaptation parameters provide improved ASR for the embedded ASR system

(Section 1, paragraph, 2).

As per claim 2, Deng et al., teach the computing device of claim 1, wherein the

means for generating new ASR adaptation parameters further comprises network-

based adaptation algorithms that estimate the adaptation parameters within the

adaptation data based on speech utterances and ASR results obtained from the ASR

system on the mobile device (Section 1, paragraphs, 2 and 3).

As per claim 3, Deng et al., teach the computing device of claim 2, wherein the

means for generating new ASR adaptation parameters further comprises means for

generating the ASR adaptation parameters after determining that a threshold amount of

transmitted information has been received from the mobile device (Section 1,

paragraphs, 2 and 3).

As per claim 4, Deng et al., teach the computing device of claim 1, further

comprising: means for synchronizing network-based account-specific adaptation data

with the transmitted user account-specific adaptation data received from the mobile

device, wherein prior to generating new ASR adaptation parameters on the computing

device, the means for synchronizing, synchronizes the adaptation data (Section 1,

paragraphs, 2 and 3).

As per claim 5, Deng et al., teach the computing device of claim 1, wherein the

means for receiving user account-specific adaptation data associated with ASR from a

mobile device further comprises means for receiving multi-modal input as part of the

user account-specific adaptation data (Section 1, paragraphs, 2 and 3).

As per claim 6, Deng et al., teach the computing device of claim 5, wherein the multi-modal input is utilized to generate the new ASR adaptation parameters (Section III).

As per claim 7, Deng et al., teach a mobile device that communicates with a network via a wireless link, the mobile device comprising:

means for performing automatic speech recognition (ASR) (Section 1, paragraphs, 2 and 3);

means for receiving and storing user data associated with communication between a user and the mobile device (Section 1, paragraphs, 2 and 3);

means for transmitting the user data over a wireless link to a computing device associated with the wireless network when a communication channel becomes available, the communicating device synchronizing the transmitted user data with stored user account specific adaptation data and generating new ASR adaptation parameters based on the user data (Section 1, paragraphs, 2 and 3) and,

means for receiving the new ASR adaptation parameters from the computing device when a communications channel becomes available between the computing device and the mobile device, wherein the new ASR adaptation parameters improve ASR performance (Section 1, paragraphs, 2 and 3).

As per claim 8, Deng et al., teach the mobile device of claim 7, wherein the computing device revises the user account-specific adaptation data using network-based adaptation algorithms that estimate the adaptation parameters within the adaptation data based on the transmitted user data (Section 1, paragraphs, 2 and 3).

As per claim 9, Deng et al., teach the mobile device of claim 8, wherein the computing device revises the adaptation data after determining that a sufficient amount of transmitted user data has been received from the mobile device (Section 1, paragraphs, 2 and 3).

As per claim 10, Deng et al., teach the mobile device of claim 7, wherein the computing device, prior to revising the user account-specific data, synchronizes the adaptation data (Section 1, paragraphs, 2 and 3).

As per claim 11, Deng et al., teach the mobile device of claim 7, wherein the received user data further comprises data associated with multi-modal communication between the user and the mobile device (Section 1, paragraphs, 2 and 3).

As per claim 12, Deng et al., teach the mobile device of claim 11, wherein the multi-modal communication includes at least user utterances and user stylus input or keyboard input (Section 1, paragraphs, 2 and 3).

Claims 13-23 are method claims to be implemented on device of claims 1-12, and are similar in scope and content, and are rejected under similar rationale.

Conclusion

3.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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8/19/07

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PRIMARY EXAMINER